

SHOT mini® 200 Sx
SHOTMASTER® 300 Sx
SHOTMASTER® 400 Sx
SHOTMASTER® 500 Sx

**Concentration of dispensing "Core" technologies
MUSASHI's desktop robot**

«Ultimate high cost performance»

Newly
Developed

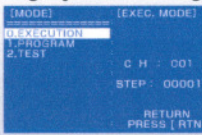


- ◆ 800mm/sec. top level operation speed in desktop class.
- ◆ Repetitive positioning accuracy ± 0.01 mm
- ◆ **Newly developed** synchronized speed function equipped PAT.P
Stable line width, no line thickness on the corners.
Available minimized tact time, and achieve the ultimate production efficiency.

For higher dispensing quality
**Secure and useful
functions**

- **Dispensing condition switching function** **NEW**
Changeable dispensing pressure, dispensing time etc. (at ML-808GX used)
- **Test shot function** **NEW**
Dispensing stability improved
- **Brake function**
Prevention of head drop at emergency stop
- **Nozzle adjuster** (option) **NEW**
The nozzle position adjustment after syringe replacement is automated.

Enhanced operability
**Evolved teaching
pendant**

- **Interactive navigation function** equipped **NEW**
- **Highly visible large screen with backlight**
 Easy status checking & fixing at program editing with dual screen.
- **Stopwatch function** **NEW**
Enable to measure operation time
- **Data Copy Function to/from other robots** **NEW**
- Available in **Japanese, English, and Chinese** **NEW**

Multifunctional machine
**Substantial hardware
configuration**

- **External input/output: 26/26** **NEW**
- **USB port** **NEW**
High-speed communication achieved
- **"START" button**
"STOP" button
"RETURN TO ORIGIN" button
"DISPENSE" button
equipped as standard

Specifications

Item name	Desktop robot SHOTmini 200Sx		Desktop robot SHOTMASTER 300Sx	Desktop robot SHOTMASTER 400Sx	Desktop robot SHOTMASTER 500Sx
Model	SM200SX-3A-SS	SM200SX-3A-Z-SS	SM300SX-3A-SS	SM400SX-3A-SS	SM500SX-3A-SS
Number of axes controlled	3-axis				
Control method (*1)	PTP / CP control				
Travel ranges	X-axis, Y-axis	200mm	300mm	400mm	500mm
	Z-axis	50mm		80mm	
Setting range of PTP operation speed (*2)	X-axis, Y-axis	1 to 800mm/sec.			
	Z-axis	1 to 350mm/sec.	1 to 250mm/sec.	1 to 400mm/sec.	
Setting range of CP operation speed (*2)	X-axis, Y-axis	0.1 to 800mm/sec.			
	Z-axis	0.1 to 350mm/sec.	0.1 to 250mm/sec.	0.1 to 400mm/sec.	
Interpolation	3-D line, 3-D circular arc/circle, 3-D elliptic arc/ellipse, spline				
Repetitive positioning accuracy (*3)	X-axis, Y-axis	±0.01mm			
	Z-axis	±0.01mm			
Transportable weight (*4)	Y-axis	8kg		15kg	
	Z-axis	2kg	3.5kg	7kg	
Number of input/output signal points	General-purpose input	26 points			
	General-purpose output	26 points			
Program entry method	Teaching pendant and PC				
Language	Japanese, English, Chinese				
Program Capacity (*5)	40000 steps (999 channels)				
Program storage system	Internal	Internal memory			
	External	Backup on PC with dispensing pattern editing software			
Program editing software	MuCAD V (option)				
Rated power supply and frequency	100 to 240VAC 50/60Hz				
Power consumption	100W		200W		
Adaptive fuse	250VT 4.0A (di. 5x20mm), time-lag fuse		250VT 6.3A (di. 5x20mm), time-lag fuse		
External dimensions (*6)	W300xD300xH440mm	W300xD300xH455mm	W510xD570xH590mm	W610xD670xH590mm	W710xD770xH590mm
Weight	13.3kg	14.5kg	37kg	55kg	66kg
Other functions	Synchronized speed function				
Other options	Leakage protection box, teaching pendant set, external operation box (horizontal/vertical), work bases, suction box for work bases, holder units, nozzle adjuster, nozzle cleaner, protection cover (door type, optical axis type)				
Compatible standards	CE-marking, EU RoHS		CE-marking (soon-to-be-released), EU RoHS		

*1 PTP control: This is control for each specified axis to move to the end coordinates at each speed.

CP control: This is control for each specified axis to move to the end coordinates at each speed that is synthesized by interpolation.

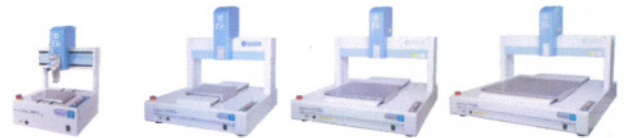
*2 These values vary depending on the operations, the weight and gravity center of the loaded object, or other factors.

*3 This value is measured by the method prescribed by Musashi (measuring method in conformity with JIS).

*4 When options are not mounted. The value varies with setting speed, setting acceleration/deceleration time, and operations.

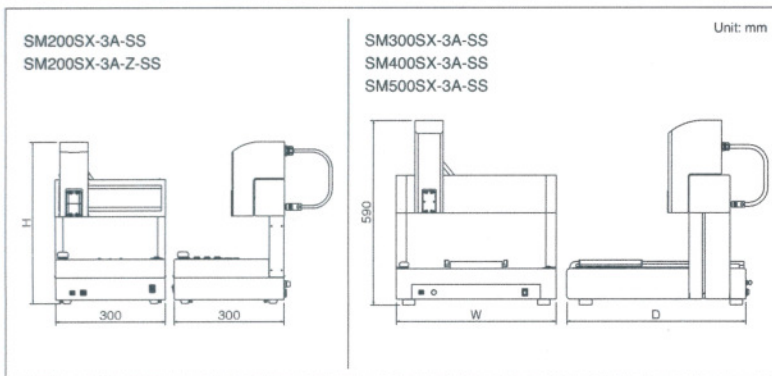
*5 Main routine: 1 to 99 CH, Sub routine: 100 to 999 CH

*6 W and D are the dimensions of the lower section of the case.



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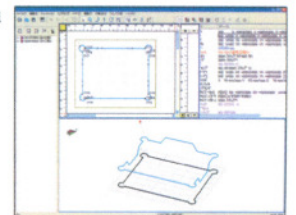
External dimensions



Dispensing pattern editing software **MuCAD V**

Concentration of **No.1** dispensing know-how!

- Intuitive drawing of program
- Easy editing for beginners
- Program transfer from former models (Ω, DS series etc.) supported



MUSASHI
ENGINEERING, INC.

<http://www.musashi-engineering.co.jp/english/>

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World Leading Dispenser
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